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SUBMIT

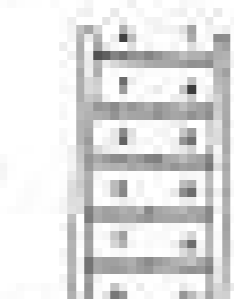
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1. What is the mRNA strand that would be copied from this DNA strand?
G G C T A T A T C C T G C G C T A T A C G C T A
2. The m in mRNA stands for _____
3. What is the function of mRNA? _____
4. Draw a picture of the monomer of RNA, called a _____.
5. In your picture label the following parts – ribose sugar, base, and phosphate group.
6. What are three differences between RNA and DNA?
7. What are the three types of RNA?
8. If the following strand is a tRNA, what is the sequence of the DNA strand it copied itself from?
U U A G C G C G G A U U A A G C U C G A A U A
9. What is the function of rRNA?
10. Proteins are made up of _____, which our bodies either make or come from our food.
11. What does rRNA do?
12. Name the two places in the cell where you can find RNA.
13. Name the place in the cell where you can find DNA.
14. Draw an mRNA strand that would complement the DNA strand CCAAT.
15. In your picture above, circle an RNA nucleotide.
16. What are the four steps of transcription?

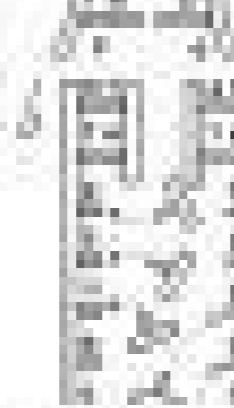
DNA Replication Preview

Directions: Watch as the 3 steps of DNA replication. Follow the directions for each step and then answer the questions below.

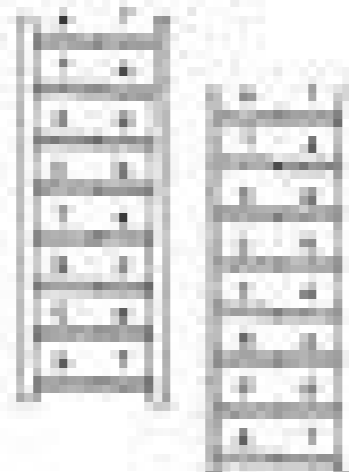
1. Helix is beginning to be unzipped at the origin.
(Helix is the first step in DNA replication.)
Helix first steps the strands separate and then zip up the helix to form a bubble.



2. Helix begins to unzip. Helix starts unzipping the rest of the way.
(Helix is the second step in DNA replication.)
Helix begins to unzip the rest of the way.



3. Helix begins to unzip. Helix starts unzipping the rest of the way.
(Helix is the third step in DNA replication.)
The new DNA copies are beginning to be synthesized.



Now Write It!

1. Helix is beginning to be unzipped at the origin.
(Helix is the first step in DNA replication.)
Helix first steps the strands separate and then zip up the helix to form a bubble.
2. Helix begins to unzip. Helix starts unzipping the rest of the way.
(Helix is the second step in DNA replication.)
Helix begins to unzip the rest of the way.
3. Helix begins to unzip. Helix starts unzipping the rest of the way.
(Helix is the third step in DNA replication.)
The new DNA copies are beginning to be synthesized.

DNA Structure and Replication Quiz Review Sheet

Fill-in the Blanks:
Use the following word list to answer the following questions. Not every word is used, but you should be familiar with them all for your quiz.

- | | | |
|-----------------------|------------------|-------------------|
| Double Helix | Semiconservative | Chargaff |
| Cytosine | Guanine | Deoxyribose Sugar |
| Nitrogen Base | Watson | Helicase |
| S Phase of Interphase | DNA Replication | Hydrogen Bonds |
| Thymine | Covalent Bonds | Mitosis |
| Nucleotides | Phosphate Group | Antiparallel |
| Crick | Nucleic Acids | Replication Fork |
| DNA Polymerase | Adenine | |

1. Chargaff's Rule says that thymine is equal in amount to _____ and cytosine is equal in amount to _____ in a double stranded DNA molecule.
2. DNA is made of made of subunits or building blocks called _____.
3. During _____, DNA makes an exact copy of itself. This occurs during _____ of the cell cycle.
4. The two scientists credited with determining the DNA structure are _____ and _____.
5. The shape of a DNA molecule is a _____ with the two strands of DNA running _____ or opposite each other.
6. The two subunits that make up the backbone of the DNA molecule are _____ and _____. They are joined together with _____ bonds.
7. The rungs of the DNA molecule are made of four different kinds of _____. They are held together by _____ bonds.
8. _____ is the enzyme that unwinds and unzips the DNA molecule during replication.
9. A _____ is made when the DNA strands are pulled apart
10. _____ is the enzyme that builds the complementary strands of DNA during replication.
11. DNA replication is said to be a _____ process because each of the original strands serves as templates for building the new strands.
12. Replication is required for _____ to occur in the cell, because DNA copies are divided between cells.
13. DNA and RNA are examples of _____.

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